

PATENT

IN THE CLAIMS

1. (Original) A system comprising:
a first interface to a local area network connection to an end-user computer;
a second interface to a wide area network connection to a distributed computer network;
detection logic responsive to the first interface, the detection logic to detect user
inactivity at the end-user computer; and
blocking logic responsive to the detection logic, the blocking logic to selectively initiate a
blocking signal to disable communications received from the second interface
from being sent over the first interface to the end-user computer.
2. (Original) The system of claim 1, wherein the blocking logic sends the blocking signal
in response to the detecting logic detecting the user inactivity for a selected period of time.
3. (Original) The system of claim 2, wherein the selected period of time is between one
and ten minutes.
4. (Original) The system of claim 2, wherein the selected period of time is a fixed time
period.
5. (Original) The system of claim 2, wherein the selected period of time is determined by
a user of the end-user computer.
6. (Original) The system of claim 1, wherein the detection logic and the blocking logic is
embdded within an auto-sensing Ethernet port.
7. (Original) The system of claim 1, wherein the wide area network is a digital subscriber
line connection that carries authenticated point to point protocol over Ethernet session traffic.
8. (Original) The system of claim 1, wherein the distributed computer network is the
Internet.

9. (Original) The system of claim 1, wherein the second interface is coupled to an internet service provider.

10. (Original) A method comprising:

establishing a broadband connection, the broadband connection including a first local data connection between an end-user computer and routing equipment and a second wide area network data connection between the routing equipment and an internet service provider;

detecting at the routing equipment that the end-user computer has been idle for an idle time greater than an idle time inactivity threshold and determining an inactivity event at the routing equipment; and

blocking data originating from the second wide area network data connection from being communicated to the first local data connection to establish a blocking condition.

11. (Original) The method of claim 10, further comprising detecting activity from the end-user computer at the routing equipment.

12. (Original) The method of claim 11, further comprising removing the blocking condition to allow communications from the second wide area data connection to be sent to the first local data connection.

13. (Original) The method of claim 12, further comprising allowing data communications from the first local data connection to be communicated to the second wide area data connection.

14. (Original) The method of claim 10, wherein the first local data connection is an Ethernet connection.

15. (Original) The method of claim 10, wherein the second wide area data connection is a point to point over Ethernet session.

16. (Original) The method of claim 10, wherein the idle time inactivity threshold is a fixed threshold defining a fixed amount of idle time.

17. (Original) The method of claim 10, wherein the idle time activity threshold is a programmable threshold.

18. (Original) The method of claim 17, further comprising receiving user defined idle time information and modifying the idle time inactivity threshold based on the user defined idle time information.

19. (Original) A method of routing data at digital subscriber line routing equipment, the method comprising:

establishing a first portion of a digital subscriber line connection, the first portion of the digital subscriber line connection including a local Ethernet data connection between an end-user computer and digital subscriber line routing equipment, the first portion of the digital subscriber line connection terminating at a first port of the digital subscriber line routing equipment;

establishing a second portion of the digital subscriber line connection, the second portion of the digital subscriber line connection including a wide area data connection between the digital subscriber line routing equipment and internet service provider equipment, the second portion of the digital subscriber line connection terminating at a second port of the digital subscriber line routing equipment;

detecting at the first port of the digital subscriber line routing equipment an indication that the end-user computer has been idle for an idle time greater than an idle time inactivity threshold; and

during a first period of time, blocking data received from the second port of the digital subscriber line routing equipment from being communicated by the first port of the digital subscriber line routing equipment.

20. (Original) The method of claim 19, further comprising, during a second period of time after the first period of time, detecting activity at the first port of the digital subscriber line

routing equipment indicating activity at the end-user computer and communicating data received at the second port of the digital subscriber line routing equipment to the first port of the digital subscriber line routing equipment and to the end-user computer.

21. (Original) The method of claim 20, wherein the idle time inactivity threshold is a fixed threshold defining a fixed amount of idle time.

22. (Original) The method of claim 20, wherein the idle time inactivity threshold is a programmable threshold.

23. (Previously presented) A system comprising:

- a first interface to a local area network, said local area network comprising a plurality of end-user computers;
- a second interface to a wide area network connection;
- detection logic responsive to the first interface, the detection logic to detect user inactivity at one or more of the plurality of end-user computers; and
- blocking logic responsive to the detection logic, the blocking logic to selectively initiate a blocking signal to selectively disable communications from being sent over the first interface to at least one of the plurality of end-user computers in the local area network while allowing communications to be sent over the first interface to at least one other of the plurality of end-user computers in the local area network.

24. (Previously presented) The system of claim 23, wherein the user inactivity is detected after a selected period of time.

25. (Previously presented) The system of claim 23, wherein the detection logic and the blocking logic is embedded within an auto-sensing Ethernet port.

26. (Previously presented) A method comprising:

establishing a broadband connection, the broadband connection including a first data connection between a local area network coupled to a plurality of end-user computers and a wide area network data connection to an internet service provider;

detecting that one or more of the plurality of the end-user computers in the local area network has been idle for a time greater than an inactivity threshold; and

selectively blocking data originating from the wide area network data connection from being communicated to the one or more of the plurality of inactive end-user computers while allowing data originating from the wide area network data connection to be communicated to at least one of the plurality of the end-user computers that remains in an active state.

27. (Previously presented) The method of claim 26, further comprising detecting resumed activity from at least one of the one or more of the plurality of end-user computers previously in an inactive state.

28. (Previously presented) The method of claim 27, further comprising allowing communications from the wide area network data connection to be sent to the at least one of the one or more of the plurality of end-user computers previously in an inactive state.

29. (Previously presented) The method of claim 26, wherein the first data connection is an Ethernet connection.

30. (Previously presented) The method of claim 26, wherein the wide area network data connection is a point to point over Ethernet session.